

FIG. 1a

```

1  ggcgcgcgc gaccgcgcgc ccagtcctccg cccgcgcgcgc ctaaccgcgc cagacacagc
61  gctcgccgcgag gctcgcttgg accctgatct taccctgtggg caccctgcgc tctgcctgcc
121  gcgaagaccg gctccccgac cctccccgag cagcgcgcgcg ggtgaagcgg agcagcccg
181  ggcgggggcag cctccccgag cagcgcgcgcg gacagcccg gacaatgggg ccgcggcggc
241  tgctgctggg ggcgcgcgcg ttcagtcctgt gcggcccgct gttgctgcgc cgcacccggg
301  cccgcaggcc agaatacaaaa gcaacaatg ccaccttaga tcccgggtca tttcttctca
361  ggaaccccaa tgataaatat gaaccattttt gggaggatga ggagaaaaat gaaagtgggt
421  taactgaata cagattagtc tccatcaata aaagcagtc tctcaaaa ccaacttctg
481  cattcatctc agaagatgcc tccggatatt tgaccagctc ctggctgaca ctcttctg
541  catctgtgta caccggagtg tttgtagtca gcctcccgact aaacatcatg gccatcgtg
601  tgttcacact gaaatgaag gtcaagaagc cggcggtggt gtacatgctg cacctggcca
661  cggcagatgt gctgtttgtg tctgtgctcc cctttaagat cagctattac tttccggca
721  gtgattggca gtttgggtct gaattgtgtc gcttcgtcac tgcagcattt tactgtaaca
781  tgtacgcctc tatcttgctc atgacagtca taagcattga ccggttctg gctgtggtgt
841  atcccatgca gtccctctcc tggcgtaactc tgggaaggcg ttcctcact tgtctggcca
901  tctgggcttt ggccatcgca ggggtagtc ctctcgctc caaggagcaa accatccagg
961  tgcccgggct caacatcact acctgtcatg atgtgctcaa tgaaccctg ctcgaaggct
1021 actatgccta ctacttctca gccttctctg ctgtcttctt tttgtgccc ctgatacattt
1081 ccacgggtctg ttatgtgtct atcattcgat gtcttagctc ttccgcagtt gccaacccga
1141 gcaagaagtc ccgggctttg ttcctgtcag ctgctgtttt ctgcatcttc atcatttgct
1201 tcggaccac aaacgtcctc ctgattgcgc attactcatt ccttctcac acttccacca
1261 cagaggctgc ctactttgcc tacctcctct gtgtctgtgt cagcagcata agctcgtgca
1321 tcgacccct aattactat tacgcttct ctgagtgcca gaggtacgtc tacagtatct

```

Fig. 1a

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FOFHO" 6/944/269

1381	tatgctgcaa	agaaagtcc	gatcccagca	gttataacag	cagtgggcag	ttgatggcaa
1441	gtaaaatgga	tacctgctct	agtaaacctga	ataacagcat	atacaaaaag	ctgttaactt
1501	aggaaaagg	actgctggga	ggttaaaaag	aaaagtttat	aaaagtgaat	aacctgagga
1561	ttctattagt	cccacccaa	actttattga	ttcacctcct	aaaacaacag	atgtacgact
1621	tgcatacctg	ctttttatgg	gagctgtcaa	gcatgtattt	ttgtcaatta	ccagaaaagt
1681	aacaggacga	gatgacggg	ttattccaag	ggaatatggc	caatgctaca	gtaataaatg
1741	aatgtcactt	ctggatatag	ctaggtgaca	tatacatact	tacatgtgtg	tatatgtaga
1801	tgtatgcaca	cacatatatt	atttgcagtg	cagtatagaa	taggcacttt	aaaacactct
1861	ttccccgcac	cccagcaatt	atgaaaataa	tctctgattc	cctgatttaa	tatgcaaaagt
1921	ctaggtttgg	agagtttagc	cctgaacatt	tcatgggtgt	catcaaacagt	gagagactcc
1981	atagtttggg	cttgtagcac	ttttgcaaat	aagtgtattt	tgaattgttt	tgacgggcaag
2041	gtttaagtta	ttaagaggga	agacttagta	ctatctgtgc	gtagaagttc	tagtgttttc
2101	aattttaaac	atatccaagt	ttgaattcct	aaaattatgg	aaacagatga	aaagcctctg
2161	ttttgatatg	ggtagtat	tttacatttt	acacactgta	cacataagcc	aaaactgagc
2221	ataagtcctc	tagtgaatgt	aggctggcct	tcagagtagg	ctattcctga	gagctgcatg
2281	tgtccgcccc	cgatggagga	ctccaggcag	cagacacatg	ccaggggccat	gtcagacaca
2341	gattggccag	aaaccttcct	gctgagcctc	acagcagtga	gactggggcc	actacatttg
2401	ctccatcctc	ctgggattgg	ctgtgaactg	atcatgttta	tgagaaactg	gcaaaagcaga
2461	atgtgatata	ctaggaggga	atgaccatga	aagacttctc	taccatctt	aaaaacaacg
2521	aaagaaggca	tggacttctg	gatgcccatc	cactgggtgt	aaacacatct	agtagttgtt
2581	ctgaaatgtc	agttctgata	tggaagcacc	cattatgcgc	tgtggccact	ccaatagggtg
2641	ctgagtgtag	agagtgggaat	aagacagaga	cctgcccctca	agagcaaaagt	agatcatgca

Fig. 1a (Cont.)

T01110" 62944250

2701 tagagtgtga tgtatgtgta ataatatgtg ttcacacaaa caaggcctgt cagctaaaga  
2761 agtttgaaca tttgggttac tatttcttgt ggttataact taatgaaaac aatgcagtac  
2821 aggacatata ttttttaaaa taagtctgat ttaattgggc actatttatt tacaatgtt  
2881 ttgctcaata gattgctcaa atcagggtttt cttttaagaa tcaatcatgt cagtctgctt  
2941 agaaataaca gaagaaaata gaattgacat tgaaatctag gaaaattatt ctataatttc  
3001 catttactta agacttaatg agactttaaa agcatttttt aacctcctaa gtatcaagta  
3061 tagaaaatct tcatggaatt cacaagtaa tttggaaatt aggtgaaac atatcttta  
3121 tcttacgaaa aatggtagc attttaaca aatagaaag ttgcaaggca aatgtttatt  
3181 taaaagagca ggcaggcgc ggtggctcac gctgtaatc ccagcacttt gggaggctga  
3241 ggcgggtgga tcacgaggtc aggagatcga gaccatcctg gctaaacacgg tgaaacccgt  
3301 ctctactaaa aatgcaaaaa aaattagccg ggcgtggtgg caggcacctg tagtcccagc  
3361 tactcgggag gctgaggcag gagactggcg tgaaccagg aggcggacct ttagtgagc  
3421 cgagatcgcg cactgtgct ccagcctggg caacagagca agactccatc tcaaaaaaaa

Fig. 1a (Cont.)

MGPRRLLLVAACFSLCGPLLSARTRARRPESKATNATLD  
PRSFLLRNPNDKYEPFWEDEEKNESGLTEYRLVSINKSS  
PLQKQLPAFISEDASGYLTSSWLTFLVPSVYTG VFVWSL  
PLNIMAIVVFILKMKVKKPAVVYMLHLATADVLFVSVLPFK  
ISYYFSGSDWQFGSEL CRFVTAAFYCNMYASILLMTVISI  
DRFLAVVYPMQSLSWRTLGRASFTCLAIWALAIAGVVPL  
VLKEQTIQVPGLNITTCHDVLNETLLEGYYAYYFSAFSAV  
FFFVPLIISTVCYVSIIRCLSSSAVANRSKKSRAFLSAAV  
FCIFIICFGPTNVLLIAHYSFLSHTSTTEAAYFAYLLCVCVS  
SISSCIDPLIYYYASSECCQRYVYSILCCKESSDPSSYNSS  
GQLMASKMDTCSSNLNNSIYKKLLTZ

Fig. 1b

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PCT/IL99/00079

5'-CGCCGAGGTCGCTTGGACCTGATCTTACCCGTGGCACCCCTGCGCTCTGCCTGCC  
GGGAAGACCGGCTCCCCGACCCGAGAGTCAGGAGAGAGGGTGAAGCGGAGCAGCCCCGA  
GGCGGGCAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCCGGGCGGC  
TGCTGCTGGTGGCCGCTGCTTCAGTCTGTGCGGCCGCTGTTGTCTGCCCCGACCCGGG  
CCCGCAGGCCAGAAATCAAAAGCAACAAATGCCACCTTAGATCCCCGGTCAATTTCTCTCA  
GGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAAAATGAAAGTGGGT  
TAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTCCTG  
CATTCATCTCAGAAAGATGCCCTCCGGATATTTGACCAGCTCCTGGCTGACACTCTTTGTCC  
CATCTGTGTACACCGAGTGTGTGTAGTCAGCCTCCCCACTAAACATCATGGCCATCGTTG  
TGTTCATCCTG-3'

Fig. 2

09744679.041101

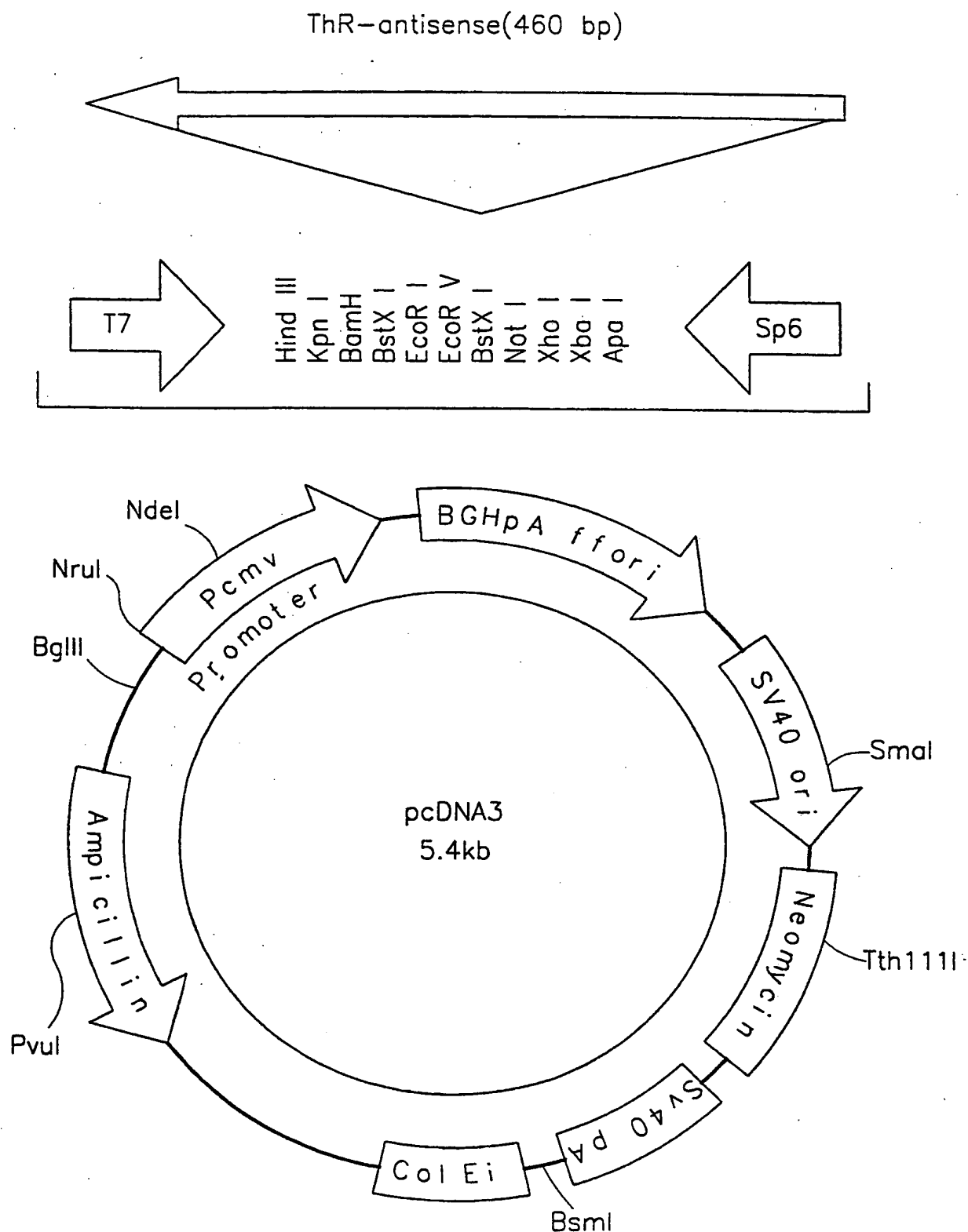


FIG.3

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FIG. 4

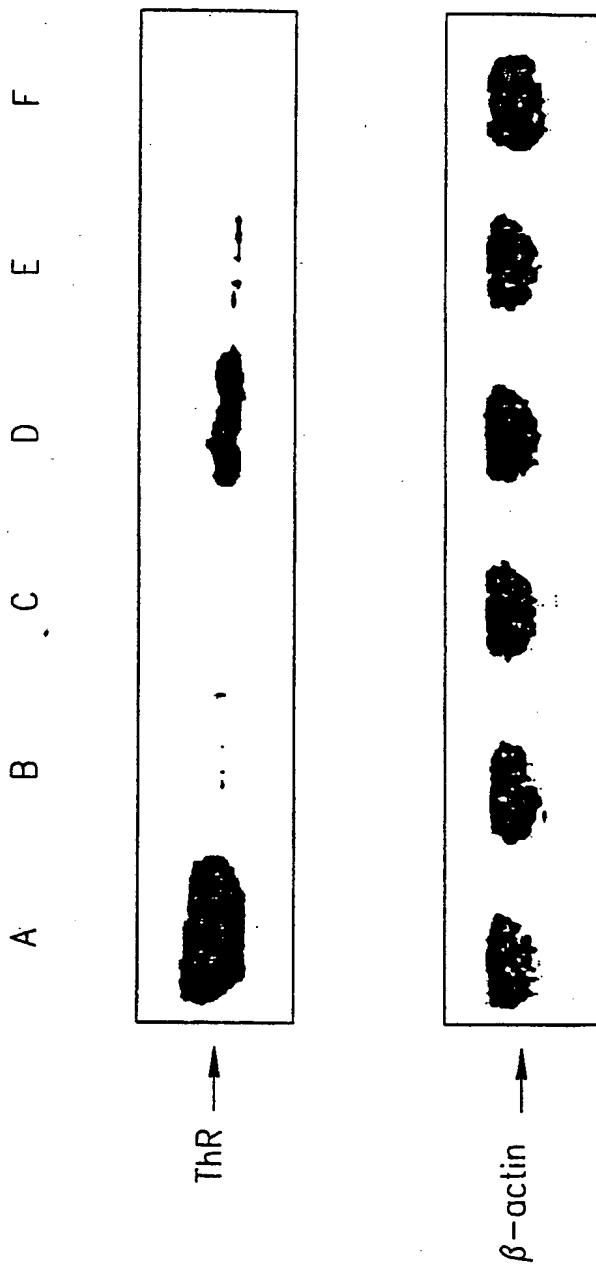


FIG.4

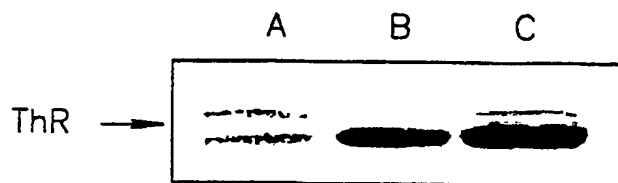
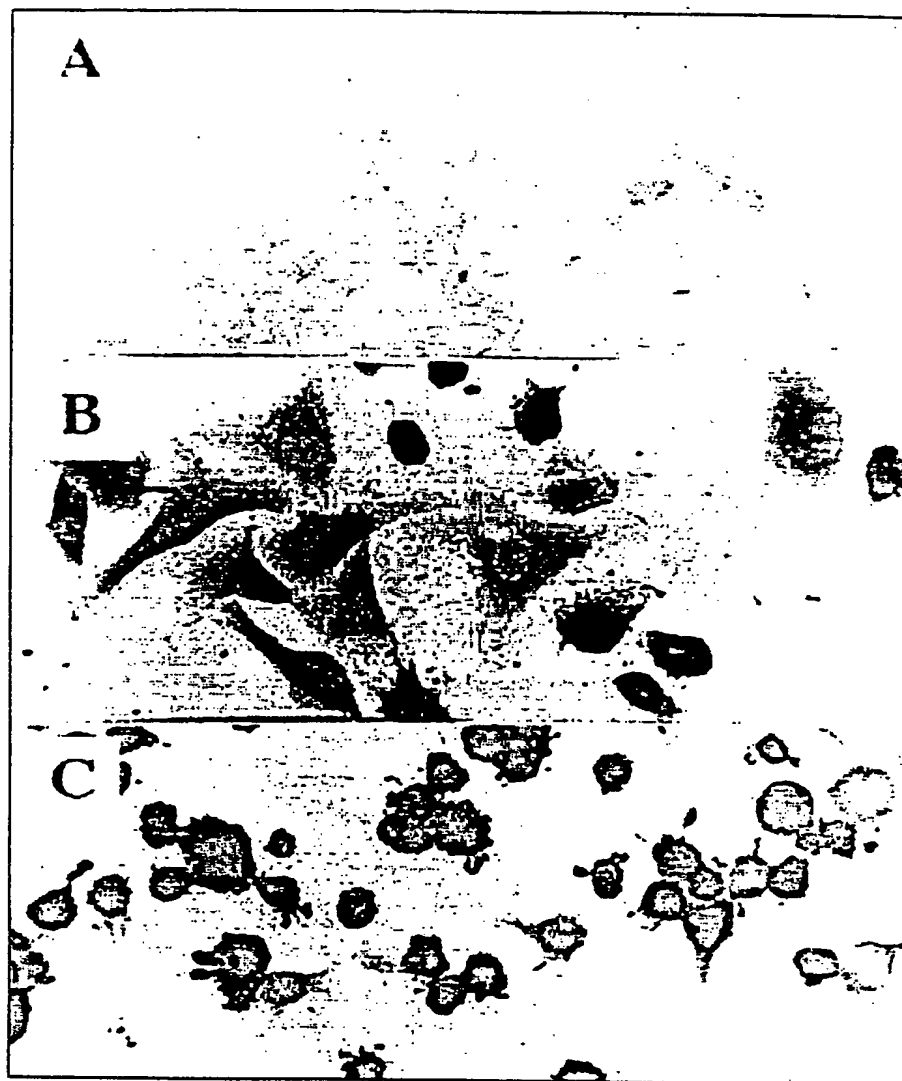


FIG.5



FIG. 6A



FIG. 6A

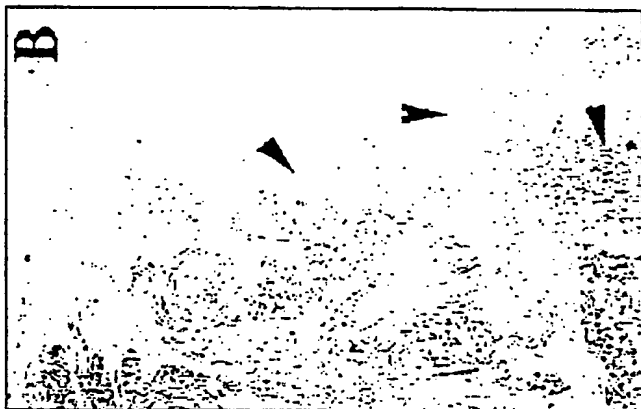


FIG. 6B

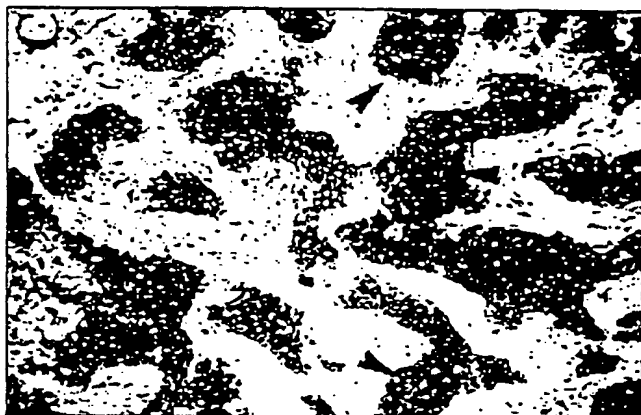


FIG. 6C

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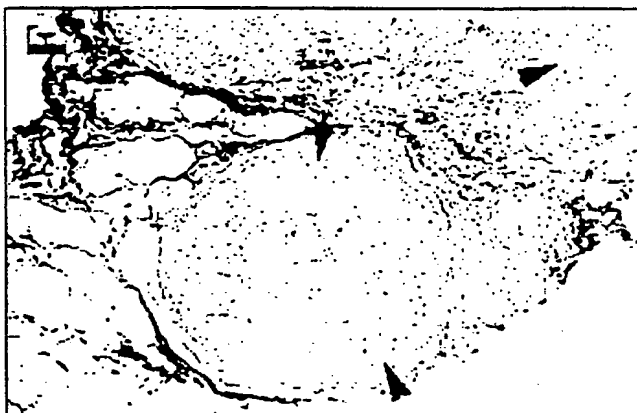


FIG. 6F



FIG. 6E

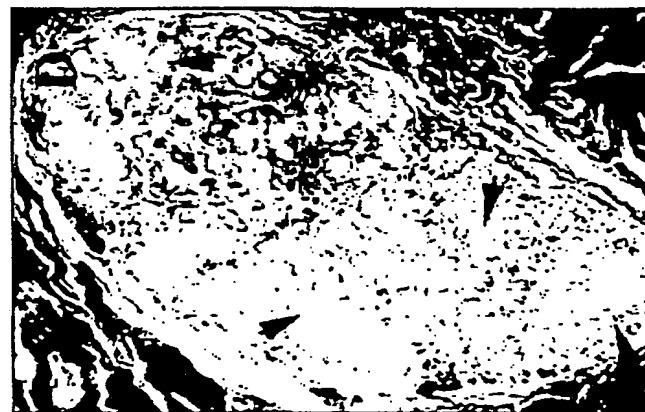


FIG. 6D

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FIG. 6I

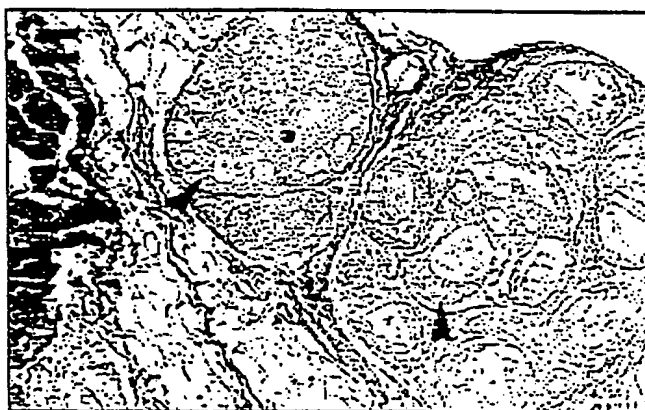


FIG. 6H

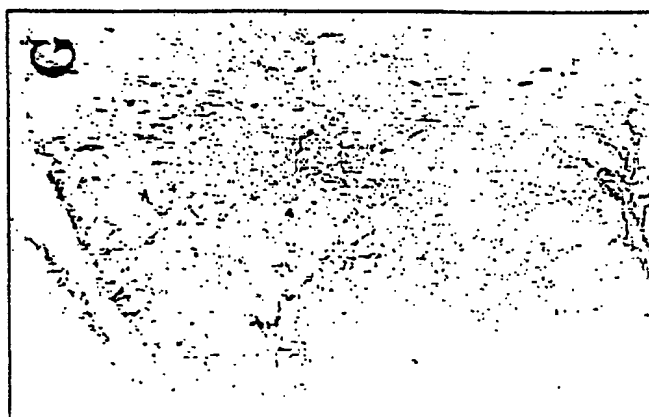


FIG. 6G

FIG. 7

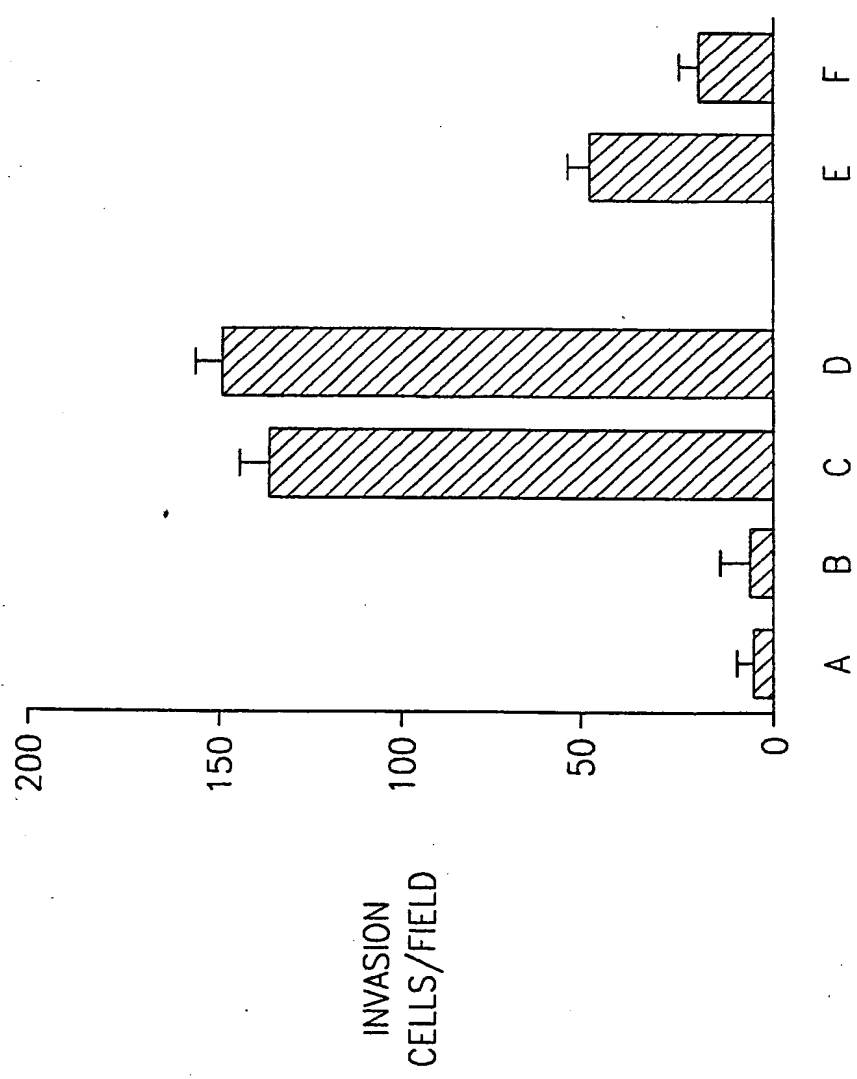


FIG. 7

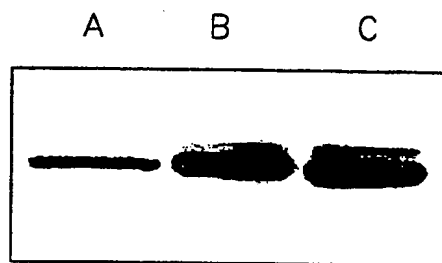
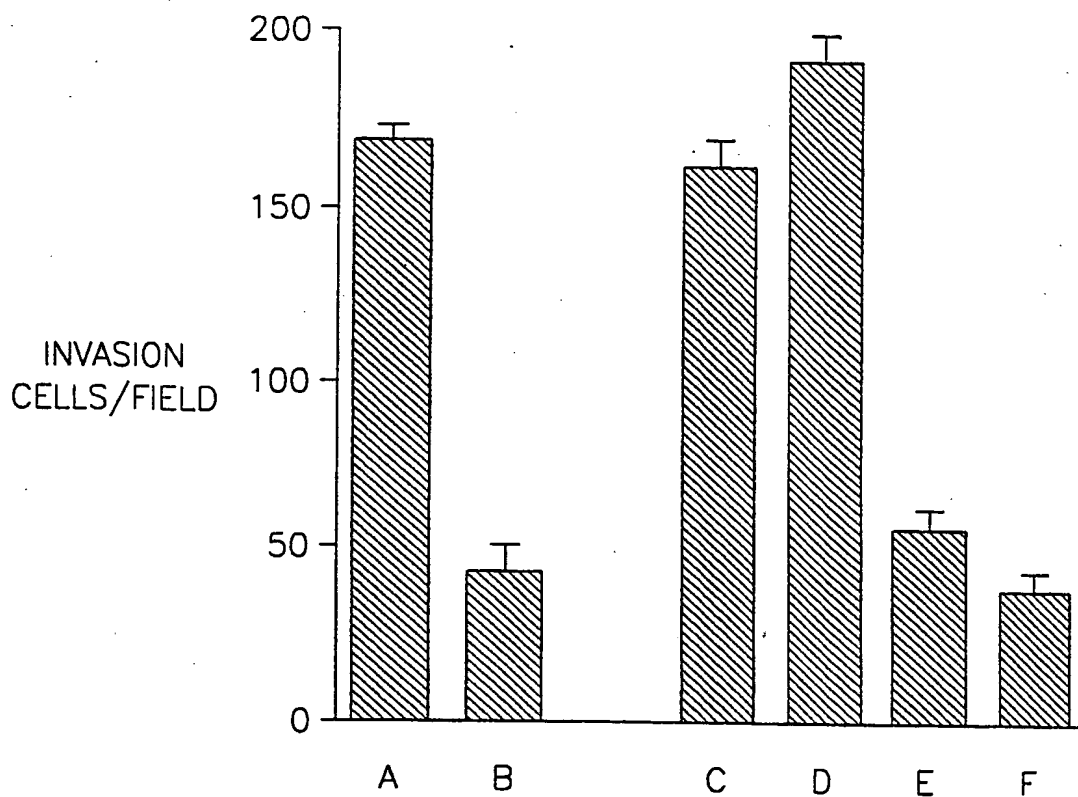


FIG.8

[illegible]

1    a a a a t g a a t a a t g a a t g t a    c t t t c a t t t g    a a c a a a c c a g    t g t t a c t g c t    g a a a c a t t t t a  
61    t t t t c t g t a a t    g a c c c t t g t c    t t c c t t t c t t    c a a t a g a t c c    t c t a a a g g a a  
121    g a a g c c t t a t    t g g t a a g g t t    g a t g g c a c a t    t g g a a a a g g a    g t t a c a g t t g  
181    a a a c a g t c t t    t t c t g t g g a t    g a g t t t t c t g    c a c t g g a a a a    c t g a c c a c t g  
241    t c t t c c t t c c    a a t t g t c t a c    a c a a t t g t g t    t t t g c c a a g t    a a c g g c a t g g  
301    c c c t g t g g g t    c t t t c t t t t c    c g a a c t a a g a    a g a a g c a c c c    t a c a t g g c c a  
361    a t c t g g c c t t    g g c t g a c c t c    c t c t c t g t c a    t c t g g t t c c c    g c c t a t c a c a  
421    t a c a t g g c a a    c a a c t g g a t t    t a t g g g a a g    c t c t t t g t a a    t g t g c t t a t t    g g c t t t t c t c  
481    a t g g c a a c a t    g t a c t g t t c c    a t t c t c t t c a    t g a c c t g c c t    c a g t g t g c a g    a g g t a t t g g g  
541    t c a t c g t g a a    c c c c a t g g g g    c a c t c c a g g a    a g a a g g c a a a    c a t t g c c a t t    g g c a t c t c c c  
601    t g g c a a t a t g    g c t g c t g a t t    c t g c t g g t c a    c c a t c c c t t t    g t a t g t c g t g    a a g c a g a c c a  
661    t c t t c a t t c c    t g c c c t g a a c    a t c a c g a c c t    g t c a t g a t g t    t t t g c c t g a g    c a g c t c t t g g  
721    t g g g a g a c a t    g t t c a a t t a c    t t c c t c t c t c    t g g c c a t t g g    g g t c t t t c t g    t t c c c a g c c t  
781    t c c t c a c a g c    c t c t g c c t a t    g t g c t g a t g a    t c a g a a t g c t    g c g a t c t t c t    g c c a t g g a t g  
841    a a a a c t c a g a    g a a g a a a a g g    a a g a g g g c c a    t c a a a c t c a t    t g t c a c t g t c    c t g g c c a t g t  
901    a c c t g a t c t g    c t t c a c t c c t    a g t a a c c t t c    t g c t t g t g g t    g c a t t a t t t t    c t g a t t a a g a  
961    g c c a g g g c c a    g a g c c a t g t c    t a t g c c c t g t    a c a t t g t a g c    c c t c t g c c t c    t c t a c c c t t a  
1021    a c a g c t g c a t    c g a c c c c t t t    g t c t a t t a c t    t t g t t t c a c a    t g a t t t c a g g    g a t c a t g c a a  
1081    a g a a c g c t c t    c c t t t g c c g a    a g t g t c c g c a    c t g t a a a g c a    g a t g c a a g t a    t c c c t c a c c t  
1141    c a a a g a a a c a    c t c c a g g a a a    t c c a g c t c t t    a c t c t t c a a g    t t c a a c c a c t    g t t a a g a c c t  
1201    c c t a t t g a g t    t t t c c a g g t c    c t c a g a t g g g    a a t t g c a c a g    t a g g a t g t g g    a a c c t g t t t a  
1261    a t g t t a t g a g    g a c g t g t c t g    t t a t t t c c t

**Fig. 9**

1 cggcaccgagc aaggacgagt cccctgcccac acagtcacagg ctggcagagt tctcagcttt  
 61 ccacttgctg ctcatatcatg gagctgaggg gaatctaccc ttgtactttg tatacttaac  
 121 aacatccctgt agccgggtct caggacatca agatgaaaat ccttatcttg gttgcagctg  
 181 ggctgctgtt tctgccagtc actgtttgcc aaagtggcat aaatgtttca gacaactcag  
 241 caaagccaac cttaactatt aagagtttta atgggggtcc ccaaaataacc tttgaagaat  
 301 tcccactttc tgacatagag ggctggacag gagccaccac aactataaaa gcggagtgtc  
 361 ccgaggacag tattttcaact ctccacgtga ataatgctac cataggatac ctgagaagtt  
 421 ccttaagtac ccaagtgata cctgccatct atatcctgct gtttgtggtt ggtgtaccat  
 481 ccaacatcgt gacctgtgg aaactctcct taaggaccaa atccatcagt ctggtcatct  
 541 ttcacaccaa cctggccatc gcagatctcc ttttctgtgt cacactgcc a ttttaagatcg  
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 1141 acaataccga cagcttgtagc tttatgtatc ttattgctct gtgcctgggg agcctgaata  
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 2041 ccttctagca tctttgcttt agcctgtcca gcttttcaag tcgttaaagg cccattcttc  
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 2341 gttctatttt tcattactcc ntaaataata ntgataataa ataataataa ataaaaaaa  
 2401 aaaaaaaa

Fig 10

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 121 ggtccggcga ggcaggagc ctgaggccac agccagagc agcctgagt cagtcatgtg  
 181 ggggagactg ctctgtggc cctgtgtg ggggttcagc ctgtctggc gcacccagac  
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Fig. 11a



1201 cgtgtcggcc gagttcaggg acaagggtcg ggcagggctc ttccaacggt cgccggggga  
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 1921 ggagtttggg accagcctg gcaacatagg gggatcccat cctacacac aaaaaaattt  
 1981 ttaatgaac caggcatgtt gcatgcgc tatagtcca gccactcaag aggcacaggg  
 2041 gggaggatca ctgagccctg ggaggtgtg gttgcagtga gctatgattg taccactgca  
 2101 ctccagcctg ggcaacagag caagaccctg tctcaaaaat aaacaaacta aaattaaaaa  
 2161 aagaagacga gagatagtg gttgtgtggc tcacaccctg aatcccagca ctttgggaagg  
 2221 ccgagggtgg cagatcatct gaggccagga gttaagacc agccctggcta acatgggtgaa

Fig. 11a (Cont.)

2281 atctatctc taccaaaat acaaaaatta gccaggcgtg gtgggggca cctgtactgg  
 2341 ggagggtccc acccagctac tggggaggct gagtcaggag aatcgctga accctggagg  
 2401 cggagggtgc ggtcagctga gatggtgcca ctgcaccca gccctggcga aagagcgact  
 2461 ctgtctcaa aaaaagaga agaggagagg acacagagac acacagagaa gaaagccaatg  
 2521 tggcggcaga ggcagagatg ggagtatgc ggacggacac aaactaagg atgcacgat  
 2581 gccaaagaca gccaacagcc accagcagcc aggagacagg ccctgggacgg gctctccctc  
 2641 acagccctca gagggaacca gccctgccac cacttgacc ctggactct ggcctgcaga  
 2701 actgtgagac aataaactct cattgttta agctgcctgg catgtggcac ttgtcaggg  
 2761 cagcccagga atctgaaca ggaatcaact ctgcttcctg gcccctgcca gcatctctg  
 2821 ctggcttc tgggctggat gcagcccag acgcactggt gctgagatg gggctggagc  
 2881 tggggctggg gctgcattcc ctggagactc actgcaagt cctgccagg aggctgagg  
 2941 caccatcc tcagtgcga atgctgtggc ccaccaggc ccagagcctg gttggccatt  
 3001 ctcatgccca ccagctctg gcttgggat gctcttgag caaccagaat agcacccca  
 3061 actctgctcc ccaaaacca tcatagcac ggctcagcct cctgctatcc cctgactgct  
 3121 ggggaccctc gccttccctc ctctcaccctg caggctgac ctcttttca cttctgtca  
 3181 atgtcaccag ggataagggt ggacaatggg ggtgggggt ggacagtgtg tgcctggggg  
 3241 ttgggtgct gcagacctgg aactccctc tgcaggatg ttggcagccg gttgtaagcc  
 3301 ttgcacggga cagaccacac ccaccgcaac ctcatccct cagcactaac cacatccact

Fig. 11a (Cont.)

FIG. 11a

3361 ctcaaccccg tcccctcgc actgaccaca ccaccccggt tggccccgc cccccgcaact  
 3421 gaacactccc gccctcaacc ccgcacccctc cgcactcacc tccccctcgc cgctcgaccc  
 3481 cgccctcacc acactgacca cctcaaccc attgcgcca gtccccacca cagtgaccac  
 3541 accctcactg gctcggccct gcccccagta tactgaccat tcccagcca ctcccttcc  
 3601 gcacttacca ctccccagc cagccccctc ccgcctgacc gctctccag cccgcctcc  
 3661 ccgctacagg cagagcgccc gccaccctct atgctgcgtt ctctgactt tacgttgccc  
 3721 cctcctctgc caagccccc aaggagccct cctggcgctc cgagggtggg agtcgggggtg  
 3781 tggcaggccg cgggtggggg cggcagtgcc tccgcgact caccgggcc ccgggcaggg  
 3841 gcgcgctcca ctctgttga cgcgggtccg gcgcacagtt ccgggcgag tggcctgtgc  
 3901 gtgctgacgt tgtagaagcg agtggccctc aaggctacgg gacgaggggtg gcgggtgacc  
 3961 aagtgcaggc gcgacgggtc agggaccggg ccgggccggg ggtgcgggcg cgcgggccta  
 4021 ccgggttcgt agtagtcgta cacggagact ggcagcgccg acgtcctgcc caccacgcac  
 4081 tcccggagag cacggaaccg cagcacgtc aggcaccgc tggggatctg tggggcagcg  
 4141 gcggggcgag gctcgacccg ggcaggagg ccggggcgcg tgagctcagg ccagaaactg  
 4201 gctgatttca gggataccca ggacgcgtga aacacagaag aaacgtgatc ccattttctt  
 4261 tttttcttt acctttctt ttttttt ttctgagac agagtctcg gctgttgccc  
 4321 aggcgtggagt gcagtggcgt gatctggct cactgcaagc tcggcctctt gggttcaaat  
 4381 gatttctctg cctcagccctc ccaagtagct gggataacag gcgccccacca ccgcaccctg

Fig. 11a (Cont.)

4441 ctaattttt gtatttttga tcaagacgga gttcaccat gtggccagg ctggtctcca  
4501 actctgccc tcaagtgatc cgctcggc ccaatttta ttcttgggt ccttccatcc  
4561 cactgggaaa acgtctcagg tggccctga aacaccactc cttttgtgt gtgtgcacgc  
4621 atggctgagc atgtgtgggt gggagtcagc acattcacga tactgtgcaa tcatcacctc  
4681 tgtctagta caggacgggt tcttctccc ccaagaacac cccatcgcca tcagcacatca  
4741 ctcccactc cccagcccc tggcaaccac aaatcttcc aactctacgg attgcccgt  
4801 tctgggcatt tcatgtcaat ggaatcatgt actcttgaa aaaaaaaaaa aaaaaaaaaa  
4861 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa

Fig. 11a (Cont.)

MWGRLLWPLVLGFSLSGGTQTPTPSVYDESGTGGGDDSTPSILP  
 APRGYPGQVCANDSDTLELPDSSRALLLGWVPTRLVPALYGLVLVGLPANGALWVL  
 ATQAPRLPSTMLLMNLATADLLALALPPRIAYHLRGQRWPFGEACRLATAALYGHM  
 YGSVLLAAVSLDRYLALVHPLRARALRGRRALGLCMAAWLMAAALPLTLQRQTF  
 RLARSDRVLCHDALPLDAQASHWQPAFTCLALLGCFLPLLAMLLCYGATLHTLAASGR  
 RYGHALRLTAVVLASAVAFFVPSNLLLLLHYSDPSAWGNLYGAYVPSLALSTLNSC  
 VDPFIYYVSAEFRDKVRAGLFQRSPGDTVASKASAEGSGRGMGTHSSLLQ

Fig. 11b

FOI 940 64944250



FIG.12C



FIG.12B



FIG.12A

FIG. 12D



FIG. 12D



FIG. 12E

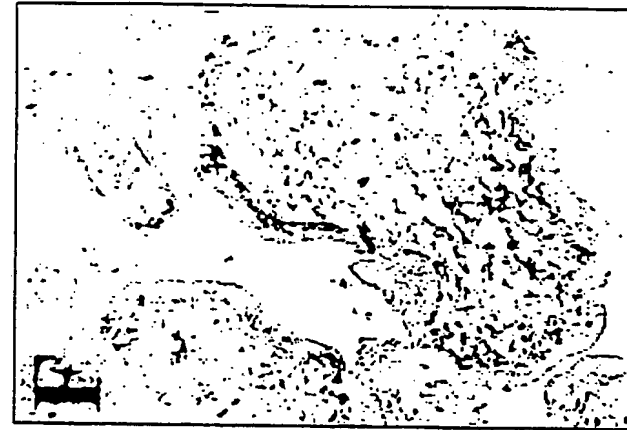


FIG. 12F

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WO 00/08150

24/24

09/744679

PCT/IL99/00079

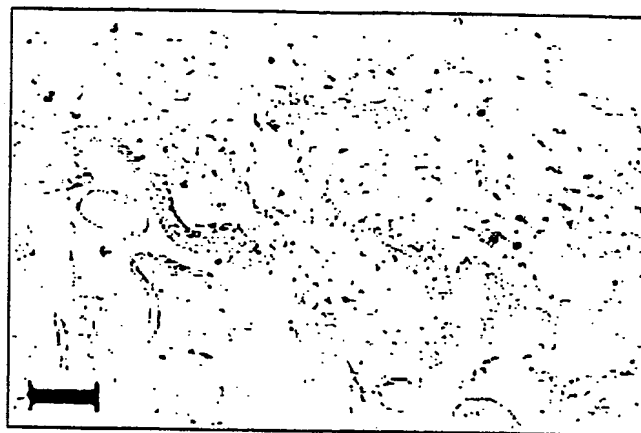


FIG. 12I

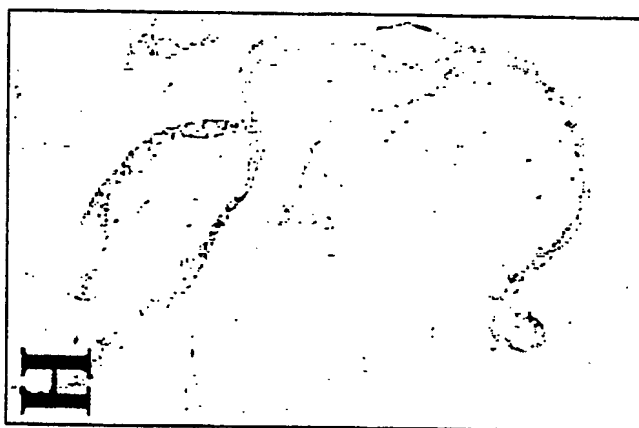


FIG. 12H

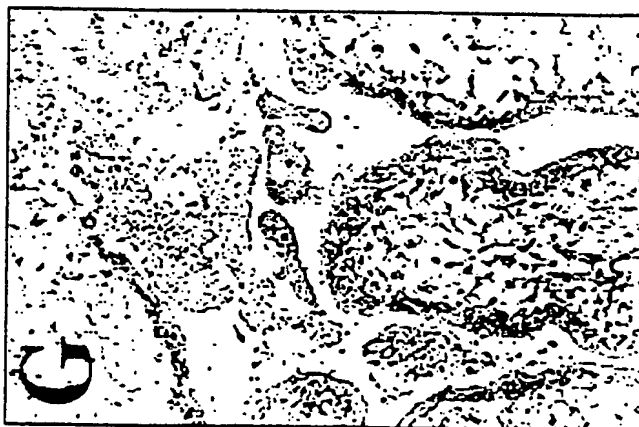


FIG. 12G